

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

- 1.(previously presented) An ultrasonic surgical instrument defining a proximal end and a distal end and comprising:
a housing;
an outer tube having a proximal end joined to the housing, and a distal end;
a waveguide positioned within the outer tube, and having
an asymmetric blade positioned at the distal end of the [instrument]
waveguide; and
a lumen positioned within the outer tubing and having an end positioned in an overlapping relationship with the blade.
- 2.(original) The ultrasonic surgical instrument of claim 1, wherein the lumen provides suction to remove fluid, debris, or vapors from a surgical field.
3. (original) The ultrasonic surgical instrument of claim 1, wherein the lumen provides irrigation fluid to a surgical site.
- 4.(previously presented) The ultrasonic surgical instrument of claim 1, wherein the lumen is moveable within the outer tube.
5. (original) The ultrasonic surgical instrument of claim 1, wherein the blade is designed to vibrate in a longitudinal mode coupled with either a transverse or torsional mode.
6. (previously presented) The ultrasonic surgical instrument of claim 1, wherein the lumen is fixed in a position adjacent to the transverse or torsional node.
7. (original) The ultrasonic surgical instrument of claim 4, wherein the lumen is movable to a position adjacent to the transverse or torsional node.

8. (original) The ultrasonic surgical instrument of claim 6, wherein the transverse or torsional node facilitate debris or fluid removal in conjunction with suction.
- 9.(previously amended) The ultrasonic surgical instrument of claim 1, wherein the lumen is movable distal of the blade.
10. (original) The ultrasonic surgical instrument of claim 1, wherein the lumen is movable radially with respect to the blade.
11. (original) The ultrasonic surgical instrument of claim 1, wherein the proximal end of the surgical instrument incorporates controls for suction and or irrigation functionality.
12. (original) The ultrasonic surgical instrument of claim 1, wherein the blade defines a channel.
13. (original) The ultrasonic surgical instrument of claim 12, wherein the channel directs debris and/or fluids toward the lumen for removal with suction.
14. (original) The ultrasonic surgical instrument of claim 12, wherein the channel directs irrigation fluid from the lumen to the surgical site.
- 15.(canceled)
- 16.(previously presented) An ultrasonic surgical instrument defining a proximal end and a distal end and comprising:
a housing;
an outer tube having a proximal end joined to the housing, and a distal end;
a waveguide positioned within the outer tubing, and having
a blade symmetric in at least one plane positioned at the distal end of the waveguide; and
at least one lumen positioned in within the outer tube and in an overlapping relationship with the blade.
17. (original) The ultrasonic surgical instrument of claim 16, wherein the lumen provides suction to remove fluid, debris, or vapors from a surgical field.

18. (original) The ultrasonic surgical instrument of claim 16, wherein the lumen provides irrigation fluid to a surgical site.

19.(previously presnted) The ultrasonic surgical instrument of claim 16, wherein the lumen is moveable.

20. (original) The ultrasonic surgical instrument of claim 16, wherein the blade is designed to vibrate in a longitudinal mode coupled with either a transverse or torsional mode.